growth and defense and have antifungal activity against ---plant--pathogenic fungi. - Beasnard O IN LO - Fr. ΡI - FR 2780972 A1 20000114 AΙ - FR 1998-8791 19980708 \mathbf{DT} - Patent LA - French os - WPI: 2000-173814 - AB; LA; CT; MPC FA - The 4-alkyl- gamma-lactones of formula (I) are claimed as new compounds which can be used to ---stimulate--- ---plant--- growth and defense, especially by stimulating peroxidase (EC-1.11.1.7) and have antifungal activity against various pathogenic fungi. Synthesis of compounds (I), such as 4-tetradecyl butyrolactone, was outlined; PMR and MS data were presented. In antifungal bioassays, compounds (I), such as gamma-decalactone (decanolactone gamma), at dosages of 0.1-1.0 kg/ha

applied in the irrigation water or as an aerial spray, showed good curative activity (up to 100% control) against Fusarium oxysporum and Botrytis cinerea on tomato and vines, resp; the lactone acts directly against Botrytis germination. The lactones are also claimed to be

TI - New 4-alkyl-gamma- ---lactone--- derivatives that ---stimulate---

active

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against Trichoderma sp., e.g. T. harzianum.

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